WHAT IS CLAIMED IS:

- A display device comprising:
- a light source for emitting a light;
- a light modulation element for modulating the emitted light; and

picture signal inputting means for receiving a picture signal from the outside and inputting a driving signal for driving the light modulation element to the light modulation element, in which the light modulation element modulates the light based on the picture signal and an image is displayed,

wherein the picture signal inputting means comprises target light amount calculating means and light amount controlling means, the target light amount calculating means being means for calculating an adequate light amount for an image display and the light amount controlling means being means for receiving the signal from the target light amount calculating means and controlling the light so as to obtain a target light amount; and

wherein the picture signal inputting means largely amplifies the driving signal when the picture signal has a low luminance and slightly amplifies the driving signal when the picture signal has a high luminance.

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The display device according to claim 1, wherein, when the picture signal has a high luminance, a pseudo multi gradation processing is executed.

- 3. The display device according to claim 1, wherein the light amount controlling means comprises a member for converting the light to a polarization light flux and a light amount adjusting member for controlling a permeable amount of the polarization light flux and wherein by changing a rotational position of the light amount adjusting member, a light amount is controlled.
 - 4. The display device according to claim 2, wherein the light amount controlling means comprises a member for converting the light to a polarization light flux and a light amount adjusting member for controlling a permeable amount of the polarization light flux and wherein by changing a rotational position of the light amount adjusting member, a light amount is controlled.

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- The display device according to claim 3, wherein the light amount adjusting member is a phase plate.
- 25 6. The display device according to claim 4, wherein the light amount adjusting member is a phase plate.

- The display device according to claim 2, wherein rotation of the light amount adjusting member is executed by an ultrasonic motor.
- 5 8. The display device according to claim 3, wherein rotation of the light amount adjusting member is executed by an ultrasonic motor.
 - The display device according to claim 4, wherein rotation of the light amount adjusting member is executed by an ultrasonic motor.
 - 10. The display device according to claim 5, wherein rotation of the light amount adjusting member is executed by an ultrasonic motor.
 - 11. The display device according to claim 6, wherein rotation of the light amount adjusting member is executed by an ultrasonic motor.

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- 12. A display device comprising:
- a light source for emitting a light;
- a light modulation element for modulating the emitted light; and
- picture signal inputting means for receiving a picture signal from the outside and inputting a driving signal for driving the light modulation element to the

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light modulation element, in which the light modulation element modulates the light based on the picture signal and an image is displayed,

wherein the picture signal inputting means comprises target light amount calculating means and light amount controlling means, the target light amount calculating means being means for calculating an adequate light amount for an image display and the light amount controlling means being means for receiving the signal from the target light amount calculating means and controlling the light modulated by the light modulation element so as to obtain a target light amount; and

wherein the picture signal inputting means changes a signal amplification factor for changing input output conversion characteristics corresponding to an output of the target light amount calculating means.

13. The display device according to claim 12, wherein, when the picture signal has a high luminance, the picture signal inputting means amplifies by an amplification factor not more than the amplification factor in the case of the picture signal having a low luminance.

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14. The display device according to claim 12, wherein, when the picture signal has a low luminance, the signal is amplified by an amplification factor of 1 or more.